



## SERVING UTENSIL ON RETRACTABLE TETHER

### BACKGROUND OF THE INVENTION

#### Field of the Invention

5 The present invention relates to apparatus for providing sanitary practices, in the preparation and the handling of food for human consumption. In particular, the invention is an apparatus providing sanitary storage, retention and use of serving utensils used at salad bars, buffet counters, and the like.

#### Prior Art

10 When food is served in a salad bar or in a buffet counter style, it is customary to provide one or more serving utensils, such as a serving spoon or salad tongs, for example, to use when transferring food from the service dish or pan of the salad bar or  
15 the buffet counter to the plate of the person helping himself from the food service. It is the usual

practice to provide a serving utensil for each dish of food set out. When a serving utensil is used only on the food for which it is intended, contamination of the serving utensil by other foods is avoided. It is difficult, however, to keep the particular serving utensil at the intended food, since persons helping themselves to food from the service bar or counter, often tend to hold on to the serving utensil and use the same serving utensil for several foods in the service. This can result in contamination of the serving utensil by other foods and in contamination of food by other food. Using the same serving utensil on a plurality of different foods may rearrange the location of the serving utensils, causing several serving utensils to be left at one dish of food, for example, while other dishes of foods are left without serving utensils.

People tend to be impatient. If a serving utensil is not readily in appearance and/or readily available, persons taking food from dishes on the salad bar or buffet service tend to improvise, using other utensils and, more often than not, use their fingers to transfer food from the service dish, pan or container holding the food, to their plate. A

person may drop a serving utensil on the floor and retrieve it, only to place the retrieved serving utensil back in the dish, pan or container holding the food. Though such practice is discouraged and frowned upon, it does occur. There is a need for providing serving utensils at a salad bar and/or buffet counter type food service which are highly visible, readily and easily available, usable within a limited, predetermined space, secure from falling on the floor when dropped, and easily removably for replacement.

Food served in a salad bar and/or in a buffet counter service, for example, is normally partially covered with a sneeze shield. A sneeze shield is a transparent sheet of material, such as clear glass or clear plastic, for example, spaced over the food, which protects the food from the forced exhale of a sneeze by a person adjacent the food served on the salad bar or buffet, for example. There is, however, a space between the food and the sneeze shield so that the person intent in taking food from the salad bar or buffet, may do so without interference from the sneeze shield. One aspect of the present invention makes use of the sneeze shield, used for

protecting food served in salad bar and/or buffet counter style, in a manner and for a purpose not heretofore intended.

#### SUMMARY OF THE INVENTION

5           The present invention, in a preferred embodiment, provides an automatic retractable tether device suspended above the food containers and/or food service in a salad bar or a buffet style food service, with a serving utensil, such as a serving spoon or salad tongs, for example, coupled to the  
10           free end of the retractable tether of the retractable tether device. A retractable tether device is well known. One popular use of a retractable tether device is a retractable tape measure. Retractable tether  
15           devices are taught in:

US 2,308,771       issued to Mooney   1943;

US 5,382,196       issued to Lodrick   1995;

US 6,112,357       issued to Halloran   2000;

US 6,419,175 B1   issued to Rankin VI 2002.

20           Mooney, in his 2,308,771 patent, teaches attaching a bar of soap to the free end of a retractable cord or tether. Lodrick, in his 5,382,196

patent teaches attaching a chalk holder for a billiard/pool cue to the free end of a retractable flexible line. Halloran, in his 6,112,357 patent, teaches attaching a brush member to the free end of a tether and, Rankin, VI, in his 6,419,175 B1 patent teaches a retractor device with a swivel attachment component extending from the retractor housing.

An embodiment of the invention provides for securing or coupling the housing component of a retractable tether device to the under surface of a sneeze shield covering food containers and/or food served in a salad bar or buffet counter style food service, with a serving utensil connected to the free end of the tether of a retractable tether device. The tether may be in the form of a cord, line, cable or chain, for example, with one end connected to a spring biased reel and the other end a free end. Retraction pressure on the extended tether may be a continuous pressure or may be a clutch release retraction pressure.

The retractable tether device may be coupled or secured to the sneeze shield by a substantially permanent coupling such as an hook or an eye on a threaded shaft screwed into the sneeze shield or on

a threaded shaft passed through a hole in the sneeze shield and held with a threaded nut and washer arrangement. Alternately, the retractable tether device may be coupled or secured to the sneeze shield by a non-permanent coupling, such as a suction cup or a VELCRO brand fastener or a tape with an adhesive on both sides of the tape, for example.

When the retractable tether device is secured to the under side of the sneeze shield of a salad bar or buffet style food service and a serving utensil is coupled to the free end of the tether, the serving utensil is essentially elevated above the food containers and/or food on the salad bar and is highly visible and easily accessible. The tether, which is extendable from the retractor housing is of limited length and the length of the tether defines the range of use of the serving utensil among the pans or dishes set out on the food service. The tethered serving utensil, when released by a person using the same, is retracted to the retractor housing and held, above the food container and/or food, ready for use by others using the food service. Dropping the service utensil is eliminated. Contamination of food by using the same serving utensil for several

different foods is avoided. Contamination of food is also prevented by preventing the handle of the serving utensil, which has been held by hands of different persons at the food service bar, from coming in contact with the food.

In another embodiment of the invention a shaft is provided with a clamp means at one end, for coupling the shaft to the rim of a dish or pan or other container used for containing food on the salad bar or food service bar. A housing is provided at the other or extreme end thereof, for mounting and/or retaining a retractable tether device. The retractable tether device is mounted in and/or retained in a housing adjacent the extreme of the shaft. A line or tether is attached, at one end to a rotatable spool in the retractable tether device and has a free end extending from the spool housing. An opening or port in the shaft housing permits the free end of the tether to extend out of the housing at the end of the shaft. A serving utensil is coupled to the free end of the tether. The retractable tether device may be similar to the retractable tether device taught by Lodrick in his US patent #5,382,196, or a modification thereof, for example. The shaft, between

the end having a clamp means and the end having a housing for the retractable tether device, is sufficiently long and serves to elevate the retractable tether device and the serving utensil attached to the free end of the tether of the retractable tether device, to a level above the food in the pan or dish to which the shaft is coupled, so that the serving utensil coupled to the free end of the retractable tether does not come in contact with the food in the dish or pan to which the shaft is coupled, when the tether is in retracted position. Means may be provided, on the food service bar, to connect or couple the end of the shaft having the clamp means, to the service bar adjacent the dish or pan retained in a port in the cover of the salad bar or food service bar.

In another embodiment of the invention, a stand or holder is provided for elevating and securing the retractable tether device at a level above of the food in the pans and/or dishes of a salad bar or buffet style food service. The stand or holder may include a base plate with a shaft extending, at normal, from the plate to a distal end, where a clamp is located. Alternatively, the origin end of the



shaft may include a clamp means for clamping the shaft to the side of a pan, eliminating the base plate. Where the stand includes a base plate, the base plate rests on the inside bottom of the pan or dish holding the food, holding the shaft in a vertical orientation. Where the stand includes a clamp means, the clamp fits over the rim of a pan, for example, holding the shaft in a vertical orientation, with respect to the pan. The retractable tether device is connected to the distal end of the vertically disposed shaft, at an elevation sufficient to elevate the serving utensil attached to the free end of the tether, above the food in the dish or pan supporting the shaft.

#### OBJECTS OF THE INVENTION

It is an object of the present invention to readily provide a serving utensil at a salad bar or buffet style food service.

It is another object of the invention to provide a serving utensil at a salad bar or food service bar which is readily available for use by persons serving themselves from the salad bar or food service bar,

which keeps the handle of the serving utensil from making contact with the food in the pan or dish supported by the salad bar, for avoiding contamination of the food, as the handle of the serving utensil is handled and/or held by the hand of many different persons who serve themselves food from the pans or dishes of the salad bar or food service bar.

Another object of the invention is to provide an openly visible, usable serving utensil for use at a salad bar or buffet style food service, the range of use of which is selectively limited.

A further object is to provide a readily available serving utensil for selectively serving one's self food from a pan or dish on a salad bar or buffet style food service, where the serving utensil is secure from falling to the floor, when released.

A still further object of the invention is to provide a serving utensil for selecting a food from a salad bar or buffet style food service which has a limited range of use with respect to person using the utensil and prevents transportation of the serving utensil from food to food on the food service.

These and other objects will become apparent when reading the accompanying description of the invention with reference to the drawings below.

#### BRIEF DESCRIPTION OF THE DRAWINGS

5           Fig. 1 represents a salad bar with sneeze shield and the present invention used in association with the salad bar;

          Fig. 2 represents one embodiment of the invention where the invention is secured to a sneeze shield by a substantially permanent coupling;

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          Fig. 3 represents another embodiment of the invention represented in Fig.2 where the invention is secured to a sneeze shield by a non-permanent coupling;

15           Fig. 4 represents the invention represented in Fig. 3 with a snap swivel deposited between the free end of the tether and the serving utensil;

          Fig. 5 represents a further embodiment of the invention with a stand/shaft support for elevating the retractable tether device;

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Fig. 5a represents an alternative embodiment of the shaft in Figs. 5 and 6;

Fig. 6 represents an alternate embodiment of the invention represented in Fig. 5 where the base plate, supporting the shaft is replaced by a clamp means.

Fig. 7 represents a still further embodiment of the invention, in exploded view; and

Fig. 8 represents the invention represented in Fig. 7, in use , clamped to the rim of a pan containing food.

#### DETAILED DESCRIPTION OF THE INVENTION

Fig. 1 represents a salad bar, which may be a free standing, substantially permanent fixture or a portable salad bar service. The structure includes a base or housing 10 which may support heating and/or cooling elements, not shown. The base 10 has a cover or deck 12 with holes or ports 14 of various size and shape that support pans, dishes and/or containers of corresponding shape, not shown. The pans, dishes and/or containers are removable and hold food. When the salad bar is filled or loaded, pans and/or dishes

with food are set in the holes or ports in the deck of the salad bar. Stacks of plates 16 are usually positioned at one end of the salad bar, usually at the "start" end of the salad bar. Pitched end supports 18 - 19 cooperate to hold a transparent sneeze shield 20. Coupled to and extending from the inside or under surface of the sneeze shield are one or more retractable tether devices. Units 11 and 12, for example, are each attached to the under side of the sneeze shield 20. Unit 13 is coupled to the edge of a pan or dish. Attached to the free end of the tether of each retractable tether device is a serving utensil.

Attaching or coupling the retractable tether device to the under surface of the sneeze shield elevates the retractable tether device over the pan or dishes set in the cover or deck of the salad bar, and thus above and/or over the food contained in the pan or dish. The orientation of a retractable tether device is over an opening in the cover 12 of the salad bar, that supports a dish or pan of food. The length of the tether of the retractable tether device defines the range of use of the serving utensil attached to the free end of the tether. The location

at which the retractable tether device is attached to the inside surface of the sneeze shield is such that the position of the serving utensil is above the food in the dish or pan set in a corresponding hole or opening in the cover or deck of the housing of the salad bar. A major consideration is to keep the handle of the serving utensil from coming in contact with the food in the pan with which the invention is associated, since persons using the salad bar take hold of the handle of the serving utensil with their hand, which potentially contaminates the handle of the serving utensil. If a contaminated handle of a serving utensil comes in contact with food, the food will be contaminated.

The transparency of the sneeze shield permits visual access to the serving utensil suspended from the under surface of the shield. While in a retracted or at rest position, the serving utensil is highly visible to persons adjacent to and/or using the salad bar. By selectively positioning the coupling of the retractable tether device coupled with a serving utensil, to a location centrally over the pan in the deck, the serving utensil is made available for use in removing food from the particular pan on the salad

bar and the handle of the serving utensil does not  
contact the food in the pan. The length of the tether  
defines the range of use of the serving utensil, with  
respect to the pan in the lay-out of holes for pans  
in the deck of the salad bar. Limiting the range of  
use of the serving utensil restricts the use of the  
serving utensil to only the food desired and avoids  
contamination of food caused when using the same  
serving utensil on two different foods. When a person  
is finished using the serving utensil and releases  
the utensil, the retractable characteristics of the  
retractable tether device returns the serving utensil  
to its retracted or rest position above and/or over  
the food. Several retractable tether devices are  
represented in Fig. 1. The serving utensil used with  
any retractable tether device may be a serving spoon,  
a pair of serving tongs or other serving utensil.

Fig. 2 represents one embodiment of one aspect  
of the invention where a retractable tether device 25  
is attached to an eye hook 26 by a split ring or snap  
ring 30. Extending from the eye hook 26 is a threaded  
shaft 27 which is inserted in a hole in the sneeze  
shield 20 and secured in place by a washer and  
threaded nut 28. Alternatively, a screw or other

fixed coupling may be used to secure the retractable  
tether device to the sneeze shield. The retractable  
tether has a free end at 29, to which a serving  
utensil is coupled by an "S" hook 32. The serving  
utensil is represented by a pair of tongs 34. The  
embodiment of the invention shown in Fig. 2 is  
represented in Fig. 1 as unit 11, for example.

Fig. 3 represents an alternate embodiment of the  
invention represented in Fig. 2, where a retractable  
tether device 25a is coupled, by a split ring or snap  
ring 30a, to the eye in the crown 33 of a suction cup  
35. The body of the suction cup is secured to the  
under surface of the sneeze shield 20. The free end  
29a of the tether 37 is coupled to a serving utensil,  
represented by a serving spoon 35a, by a snap ring or  
split ring 30'a. The body of the suction cup includes  
a nipple 36, which may be grasped and pulled to break  
the suction holding the body of the suction cup to  
the surface of the sneeze shield 20. The embodiment  
of the invention shown in Fig. 3 is represented in  
Fig. 1 as unit 12, for example.

Fig. 4 represents a further embodiment of the  
invention represented in Figs. 2 and 3 where a  
retractable tether device 25b, with tether 37b, is



coupled to the eye in the crown of a suction cup 35a with a split ring or snap ring 30b. The body of the suction cup 35a is secured to the under surface of the sneeze shield 20. A snap swivel 40, at its fixed  
5 end 41, is coupled to the free end 29b of the tether 37b. The snap swivel represents a coupling means between the free end 29b of the tether and the serving utensil 35b that may be opened for removal and replacement of the serving utensil. In Fig. 2,  
10 the means for elevating the retractable tether device/serving utensil combination over and/or above food on the salad or food service bar, is represented in substantially permanent form. The means for elevating the retractable tether device/serving  
15 utensil combination represented in Figs. 3 and 4 is represented in removable, temporary form.

Figs. 5, 6, 7 and 8 each represent other embodiments of the invention, where an alternate means for elevating the retractable tether  
20 device/serving utensil combination above the pans and/or dishes in the deck of the salad bar or above the pans and/or dishes in the buffet style serving, is represented.

In Fig. 5, a pan 14a is represented, supported in a port in the deck 12 of the housing 10 of a salad bar, under a sneeze shield 20. A holder, defined by a shaft 46 extending at normal from a base plate 48 stands on the inside bottom of the pan 14a. The shaft, at its distal end has an open coupling 50, for receiving a coupling, such as split ring 51, which is coupled to the eye on a retractable tether device 25d. The length of shaft 46 is sufficient to elevate the coupled retractable tether device/serving utensil combination for holding the serving utensil 35c above the level of the food placed in the pan 14a. The base plate 48 and shaft 46 are fabricated preferably from a stainless steel or other material that may be placed in the bottom of the pan, covered with food and cooked with food, in a sanitary manner.

Fig. 5a represents that the shaft 46 of Fig. 5 and shaft 46c of Fig. 6 may each be a two piece fitted shaft, such as 46a and 46b. This will permit the stem 46a of the shaft to be made sufficiently short so that the base plate 48 and stem 46a may be placed in the pan prior to cooking and cooked with the food, if desired. The fitted female section 46b of the fitting, may be attached to the male section 46a when

the pan is removed from cooking the food.

Fig. 6 represents an alternate structure for securing the shaft 46c to the pan 14b. The base or lower end of the shaft 46c defines a clamp 52, which fits over the rim and side or end of the pan 14b. The broken line represents how the clamp 52 fits over the rim and clamps on the edge of the pan 14b. A wing nut 54 represents an adjustable locking clamp which, when securing the shaft 52 to the side of a pan 41b keeps the shaft aligned vertically, with respect to the bottom of the pan. The open coupling 50a, at the distal end of the shaft 46c, is sufficiently high to elevate the coupled retractable tether device 25e so that the serving utensil, when the tether is retracted, is held above the level of the food in the pan 14b.

Figs. 7 and 8 represent a preferred embodiment of the invention. In Fig. 7, a shaft 60 defines the means for elevating a retractable tether device above and/or over food in a pan in a salad and/or food service bar. At one end 61 a split 62 is provided for fitting over the rim of a pan. This may be similar to the split 55 on the shaft 52 in Fig. 6. A locking means may also be provided. At the other end of the

shaft 60 a housing 64 and housing cover 65 are provided, with an opening at 66 when the housing cover is in place, as represented in Fig. 8. A retractable tether device 68, is positioned in the housing 64 and secured therein by the housing cover 65. The retractable tether device 68 is oriented in the housing so that the free end of the tether extends out the opening 66. Fig. 8 represents the invention represented in Fig. 7 in use on a pan 41c of food. The split 62 at the end of the shaft 60 is fitted over the rim of the pan 14c and locked in place by an adjustable locking wing nut or thumb screw 54a. The free end of the retractable tether passes through the opening 66 in the head end 70 of the shaft. The housing cover 65 secures the retractable tether device in the housing. A serving utensil, represented as a pair of tongs 72 is coupled to the free end of the tether.

In the foregoing description of the invention, referenced to the drawings, certain terms have been used for conciseness, clarity and comprehension. However, no unnecessary limitations are to be implied from or because of the terms used, beyond the requirements of the prior art, because such terms are

used for descriptive purposes and are intended to be broadly construed. Furthermore, the description and illustrations of the invention are by way of example, and the scope of the invention is not limited to the exact details shown, represented or described.

Having now described a preferred embodiment and several alternate embodiments of the invention, in terms of features, discoveries and principles, along with certain alternative construction and suggested changes, other changes that may become apparent to those skilled in the art may be made, without departing from the scope of the invention defined in the appended claims.